SAFETY DATA SHEET

Revision Date: 03/17/20

Section 1: Identification

PRODUCT AND COMPANY INFORMATION

Product Name: Hydroxyethyl methacrylate **Molecular Formula:** $C_6H_{10}O_3$

Catalog Number(s): M-119, M-124, M-125

Company: Scientific Polymer Products, Inc.
6265 Dean Parkway
Ontario, NY 14519

Telephone: 585/265-0413
Fax: 585/265-1390
Website: www.scipoly.com

Emergency Phone Number: 800-255-3924 (CHEM TEL)

Section 2: Hazards Identification

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Skin irritation, Category 2, H315
Eye irritation, Category 2A, H319
Skin sensitization, Category 1, H317

GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary statement(s)

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/eye protection/face protection/protective clothing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P333+P313	If skin irritation or rash occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS- None

To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Section 3: Composition/Information on Ingredients

Ingredient	CAS Number	Concentration (%)
Hydroxyethyl methacrylate	868-77-9	100

Section 4: First Aid Measures

Description of first aid measures

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed
The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Indication of any immediate medical attention and special treatment needed
No data available

Section 5: Fire-Fighting Measures

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
Carbon oxides

Advice for firefighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data available

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Soak up with inert absorbent material and dispose of as a hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2

Conditions for safe storage, including any incompatibilities
Store in a tightly closed container in a dry well-ventilated place. Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry and well ventilated place.

Recommended storage temperature 2-8°C (35.6-46.4°F)
Storage class (TRGS 510): Combustible liquids

Specific end use(s)
Laboratory chemicals, Manufacture of substances

Section 8: Exposure Controls/Personal Protection

Control parameters

Components with workplace control parameters
Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday

Personal protective equipment

Eye/face protection
Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Chemical resistant gloves should be worn whenever this material is handled. The gloves listed here may provide protection against permeation (gloves of other chemically resistant materials may not provide adequate protection): neoprene gloves, nitrile gloves. Rinse and removed gloves immediately after use. Wash hands with soap and water. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Body Protection
Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air purifying respirators are appropriate use full face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure
Do not let product enter drains

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a)	Appearance	Form: Liquid

b)	Odor	Ester like
c)	Odor Threshold	No data available
d)	pH	No data available
e)	Melting point/freezing point	-99°C (-146°F)
f)	Initial boiling point and boiling range	213° C (415° F)
g)	Flash point	106° C (223° F)- Closed cup-ASTM D93OECD Test Guideline 104
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapor pressure	0.08 hPa (0.06 mmHg) at 20°C (68°F)-
l)	Vapor density	No data available
m)	Relative density	1.07 @ 20°C (68°F)
n)	Water solubility	100 g/l @ 20°C (68°F)
o)	Partition coefficient: n- octanol/water	log Pow: 0.42 @ 25°C (77°F)-OECD Test 107 octanol/water
p)	Auto-ignition temperature	375°C (707°F) @ 1,024 hPa (768 mmHg)
q)	Decomposition temperature	No data available
r)	Viscosity	6.8 mPas @ 20°C (68°F)
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

Other safety information
No data available

Section 10: Stability and Reactivity

Reactivity
No data available

Chemical stability
No data available

Possibility of hazardous reactions
Stable under recommended storage conditions. Inhibitor is added to this product to prevent polymerization. However, this material can undergo hazardous polymerization. Excessive aging, heat, contamination with polymerization catalysts, oxygen free atmosphere, inhibitor depletion or ultraviolet light (sunlight) may cause polymerization. An uncontrolled polymerization may produce a rapid release of energy with the potential for an explosion in unvented closed containers.

Conditions to avoid
Exposure to moisture, heat, light

Incompatible materials
Oxidizing agents, free radical initiators, steel (all types and surface treatments), peroxides

Hazardous decomposition products
Other decomposition products- No data available
In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity
LD50 Oral – Rat – male and female – 5,564 mg/Kg

Inhalation: No data available

LD50 Dermal – Rabbit – male > 5,000 mg/Kg

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
Eyes – Rabbit
Result: Irritating eyes
(Draize Test)

Respiratory or skin sensitization
In vivo assay – Guinea pig
Result: May cause sensitization by skin contact
(Maximazation Test (GPMT))

Germ cell mutagenicity
In Vitro mammalian cell gene mutation test
Chinese hamster ovary cells
Result: Negative

OECD Test Guideline 474
Rat – male
Result: Negative

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
No data available

Specific target organ toxicity- single exposure (GHS)
No data available

Specific target organ toxicity- repeated exposure (GHS)
No data available

Aspiration hazard
No data available

Additional Information
Repeated dose toxicity: Rat – male and female - Oral-NOAEL: 300 mg/Kg

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity

Toxicity to fish	semi-static test LC50-Oryzias latipes > 100mg/l-96h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	Immobilization EC50-Daphnia magna (Water flea)-380 mg/l-48h (OECD Test Guideline 202)
Toxicity to algae	Growth inhibition EC50-Selenastrum capricornutum (green algae)-838 mg/l -72h (OECD Test Guideline 201)

Persistence and degradability

Biodegradability	aerobic-Exposure time 14d Result: 92-100% - Readily biodegradable (OECD Test Guideline 301C)

Bioaccumulative potential
No data available

Mobility in soil
No data available

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects
No data available

Section 13: Disposal Considerations

Waste treatment methods

Product
Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging
Dispose of as unused product.

Section 14: Transport Information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Section 15: Regulatory Information

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
Acute Health Hazard

Massachusetts Right To Know Components
No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.
Hydroxyethyl methacrylate	868-77-9

New Jersey Right To Know Components

	CAS-No.
Hydroxyethyl methacrylate	868-77-9

California Prop. 65 Components
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16: Other Information

HMIS Rating		**NFPA Rating**	
Health:	2	Health:	2
Flammability:	1	Flammability:	1
Reactivity:	0	Reactivity:	0

This material is intended for laboratory use only. It is not sold or intended for drug, household or other uses. The information represents the most accurate and complete data currently available to us. However, we make no warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.